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IN THE CLAIMS

Please cancel claims 3, 10-11, 14, and 19.

Please rewrite claims 1, 4, 12, 15, and 17, as shown below.

Please add new claims 22-24, as shown below.

1. (Currently Amended) A method, comprising:

arranging a plurality of light beams according to a parallel configuration;  
diverting a first portion of said parallel light beams to a first imaging device;  
propagating a remaining portion of said parallel light beams through a medium;  
diverting a first portion of the propagated parallel light beams to a second  
imaging device; and

determining an optical loss parameter using imaging data provided by said first  
and second imaging devices; and

adapting beam steering parameters associated with the medium to reduce  
optical loss in response to the optical loss parameter.

2. (Original) The method of claim 1, wherein said imaging devices include Indium  
Gallium Arsenide (InGaAs) imaging surfaces.

3. Cancelled.

4. (Currently Amended) The method of claim ~~[[3]]~~ 1, wherein said beam steering  
parameters include mirror alignment parameters, wherein at least one mirror is used to  
propagate said remaining portion of said parallel light beams through said medium.

5. (Original) The method of claim 1, wherein said medium comprises a free-space  
medium.

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6. (Original) The method of claim 4, wherein said steps of determining said optical loss parameter and adapting said beam steering parameters are iteratively performed until said determined optical loss parameter is less than a threshold level.

7. (Original) The method of claim 1, wherein each of said first and second imaging devices include an imaging surface defined by a plurality of pixels, each of said light beams within said plurality of light beams optically exciting at least one pixel on said imaging surfaces.

8. (Original) The method of claim 7, wherein:

the optical excitement levels of pixels within said imaging surface of said first imaging device are related to an input power applied to said medium; and

the optical excitement levels of pixels within said imaging surface of said second imaging device are related to an output power received via said medium;

said optical medium having associated with it an insertion loss determined using said first and second imaging device optical excitement levels.

9. (Original) The method of claim 1, wherein each of said first and second imaging devices comprises a respective imaging surface, said imaging surfaces comprising respective arrays of picture elements, each of said picture elements providing an output level proportional to an excitation level induced by received optical energy.

10. Cancelled.

11. Cancelled.

12. (Currently Amended) ~~The method of claim 10,~~ A method for determining a loss parameter of an optical device, comprising:

impacting a first portion and a remaining portion of a plurality of substantially parallel light beams to, respectively a first imaging device and said optical device, said

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optical device providing a propagated plurality of substantially parallel light beams at an output;

impacting a first portion of said propagated plurality of substantially parallel light beams to a second imaging device; and

determining an optical loss parameter using imaging data provided by said first and second imaging devices,

wherein each of said first and second imaging devices include an imaging surface defined by a plurality of pixels, each of said light beams within said plurality of light beams optically exciting at least one pixel on said imaging surfaces.

13. (Original) The method of claim 12, wherein:

the optical excitement levels of pixels within said imaging surface of said first imaging device are related to an input power applied to said optical device; and

the optical excitement levels of pixels within said imaging surface of said second imaging device are related to an output power received via said optical device;

said insertion loss being determined using said first and second imaging device optical excitement levels.

14. Cancelled.

15. (Currently Amended) ~~The method of claim 10,~~ A method for determining a loss parameter of an optical device, comprising:

impacting a first portion and a remaining portion of a plurality of substantially parallel light beams to, respectively a first imaging device and said optical device, said optical device providing a propagated plurality of substantially parallel light beams at an output;

impacting a first portion of said propagated plurality of substantially parallel light beams to a second imaging device; and

determining an optical loss parameter using imaging data provided by said first and second imaging devices,

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wherein:

each of said first and second imaging devices include an imaging surface defined by a plurality of pixels, each of said light beams within said plurality of light beams optically exciting respective pluralities of pixels;

said loss parameter being determined by comparing the optical energy imparted to said pluralities of pixels of said second imaging device pixels to the optical energy imparted to said respective pluralities of pixels of said first imaging device.

16. (Original) The method of claim 15, wherein said comparison is adapted according to the relative percentage of total optical energy imparted to said first and second imaging surfaces.

17. (Currently Amended) A power monitoring apparatus, comprising:

a first imaging device, for receiving a first portion of optical energy supplied by a plurality of parallel light beams and responsively providing a first indicium of received optical energy;

a steering device, for causing the propagation through a medium of a remaining portion of said optical energy supplied by said plurality of parallel light beams; and

a second imaging device, for receiving at least a first portion of the optical energy propagated through said medium and responsively providing a second indicium of received optical energy;

said first and second indicia of received optical energy being sufficient to determine an optical loss parameter associated with said medium for adapting said steering device to reduce optical loss.

18. (Original) The apparatus of claim 17, wherein said imaging devices include Indium Gallium Arsenide (InGaAs) imaging surfaces.

19. Cancelled.

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20. (Original) The apparatus of claim 17, wherein said steering device comprises a micro-electromechanical system (MEMS)-based mirror.

21. (Original) The apparatus of claim 20, further comprising:

a plurality of MEMS-based mirrors forming a MEMS-based mirror array, each mirror within said MEMS-based mirror array having steering parameters adapted in response to respective determined optical loss parameters associated with the propagation of optical energy through said medium.

22. (New) The method of claim 12, wherein said imaging devices include Indium Gallium Arsenide (InGaAs) imaging surfaces.

23. (New) The method of claim 14, wherein said imaging devices include Indium Gallium Arsenide (InGaAs) imaging surfaces.

24. (New) The method of claim 15, wherein said imaging devices include Indium Gallium Arsenide (InGaAs) imaging surfaces.